EPA

SITE INSPECTION REPORT

GENERAL INSTRUCTIONS: Complete Sections I and III through XV of this form as completely as possible. Then use the information on this form to develop a Tentative Disposition *(Section II)*. File this form in its entirety in the regional Hazardous Waste Log File. Be sure to include all appropriate Supplemental Reports in the file. Submit a copy of the forms to: U.S. Environmental Protection Agency; Site Tracking System; Hazardous Waste Enforcement Tack Force *(EN-335)*; 401 M St., SW; Washington, DC 20460.

145321

I. SITE IDENTIFICATION

A. SITE NAME	B. STREET *(or other identifier)*		
Grumman Aerospace Corp			
C. CITY	**D. STATE**	**E. ZIP CODE**	**F. COUNTY NAME**
Bethpage LI	NY		Nassau

G. SITE OPERATOR INFORMATION

1. NAME			2. TELEPHONE NUMBER
Same as above			516/575-2385
3. STREET	**4. CITY**	**5. STATE**	**6. ZIP CODE**

H. REALTY OWNER INFORMATION *(if different from operator of site)*

1. NAME		2. TELEPHONE NUMBER
3. CITY	**4. STATE**	**5. ZIP CODE**

I. SITE DESCRIPTION

J. TYPE OF OWNERSHIP

☐ 1. FEDERAL ☐ 2. STATE ☐ 3. COUNTY ☐ 4. MUNICIPAL ☒ 5. PRIVATE

II. TENTATIVE DISPOSITION *(complete this section last)*

A. ESTIMATE DATE OF TENTATIVE DISPOSITION *(mo., day, & yr.)*	B. APPARENT SERIOUSNESS OF PROBLEM
	☐ 1. HIGH ☐ 2. MEDIUM ☒ 3. LOW ☐ 4. NONE

C. PREPARER INFORMATION

1. NAME	2. TELEPHONE NUMBER	3. DATE *(mo., day, & yr.)*
Billie Jo Johnson	321-6713	5/30/80

III. INSPECTION INFORMATION

A. PRINCIPAL INSPECTOR INFORMATION

1. NAME	2. TITLE	
Billie Jo Johnson	Physical Scientist	
3. ORGANIZATION		**4. TELEPHONE NO. *(area code & no.)***
US EPA S+M Branch		321-6713

B. INSPECTION PARTICIPANTS

1. NAME	2. ORGANIZATION	3. TELEPHONE NO.
R Hemmett	USEPA S+M Branch	321-6713

C. SITE REPRESENTATIVES INTERVIEWED *(corporate officials, workers, residents)*

1. NAME	2. TITLE & TELEPHONE NO.	3. ADDRESS
John Ohlmann	Asst Director Facilities Engineering (516) 575-2385	

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IV. SAMPLING INFORMATION *(continued)*

C. PHOTOS

1. TYPE OF PHOTOS: [ ] a. GROUND [ ] b. AERIAL

2. PHOTOS IN CUSTODY OF:

D. SITE MAPPED?

[ ] YES. SPECIFY LOCATION OF MAPS:

E. COORDINATES

1. LATITUDE *(deg.-min.-sec.)*: 41° 58' 9"

2. LONGITUDE *(deg.-min.-sec.)*: 74° 00'

V. SITE INFORMATION

A. SITE STATUS

[blacked-out mark] 1. ACTIVE *(Those industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if infrequently.)*

[X] 2. INACTIVE *(Those sites which no longer receive wastes.)* Sludge drying beds are not [illegible] in use

[ ] 3. OTHER *(specify)*: *(Those sites that include such incidents like "midnight dumping" where no regular or continuing use of the site for waste disposal has occurred.)* Waste is treated and sludge is taken to sanitary landfill.

B. IS GENERATOR ON SITE?

[ ] 1. NO [X] 2. YES *(specify generator's four-digit SIC Code)*:

C. AREA OF SITE *(in acres)*: ≈ 500 acres

D. ARE THERE BUILDINGS ON THE SITE?

[ ] 1. NO [X] 2. YES *(specify)*:

VI. CHARACTERIZATION OF SITE ACTIVITY

Indicate the major site activity*(ies)* and details relating to each activity by marking 'X' in the appropriate boxes.

'X'	A. TRANSPORTER	'X'	B. STORER	'X'	C. TREATER	'X'	D. DISPOSER
	1. RAIL		1. PILE		1. FILTRATION		1. LANDFILL
	2. SHIP	X	2. SURFACE IMPOUNDMENT		2. INCINERATION		2. LANDFARM
	3. BARGE		3. DRUMS		3. VOLUME REDUCTION		3. OPEN DUMP
	4. TRUCK		4. TANK, ABOVE GROUND		4. RECYCLING/RECOVERY		4. SURFACE IMPOUNDMENT
	5. PIPELINE		5. TANK, BELOW GROUND		5. CHEM./PHYS./TREATMENT		5. MIDNIGHT DUMPING
	6. OTHER *(specify)*:		6. OTHER *(specify)*:		6. BIOLOGICAL TREATMENT		6. INCINERATION
					7. WASTE OIL REPROCESSING		7. UNDERGROUND INJECTION
					8. SOLVENT RECOVERY		8. OTHER *(specify)*:
					9. OTHER *(specify)*:		

E. SUPPLEMENTAL REPORTS: If the site falls within any of the categories listed below, Supplemental Reports must be completed. Indicate which Supplemental Reports you have filled out and attached to this for..

[ ] 1. STORAGE [ ] 2. INCINERATION [ ] 3. LANDFILL [ ] 4. SURFACE IMPOUNDMENT [ ] 5. DEEP WELL

[ ] 6. CHEM/BIO/PHYS TREATMENT [ ] 7. LANDFARM [ ] 8. OPEN DUMP [ ] 9. TRANSPORTER [ ] 10. RECYCLOR/RECLAIMER

VII. WASTE RELATED INFORMATION

A. WASTE TYPE

[ ] 1. LIQUID [ ] 2. SOLID [X] 3. SLUDGE [ ] 4. GAS

B. WASTE CHARACTERISTICS

[X] 1. CORROSIVE [ ] 2. IGNITABLE [ ] 3. RADIOACTIVE [ ] 4. HIGHLY VOLATILE

[ ] 5. TOXIC [ ] 6. REACTIVE [ ] 7. INERT [ ] 8. FLAMMABLE

[ ] 9. OTHER *(specify)*:

C. WASTE CATEGORIES

1. Are records of wastes available? Specify items such as manifests, inventories, etc. below.

Records of waste filed w/ NY DEC.

☐ B. NON-WORKER INJURY/EXPOS

N/A

☐ C. WORKER INJURY/EXPOSURE

N/A

☐ D. CONTAMINATION OF WATER SUPPLY

unknown

☐ E. CONTAMINATION OF FOOD CHAIN

N/A

☐ F. CONTAMINATION OF GROUND WATER

unknown

☐ G. CONTAMINATION OF SURFACE WATER

N/A

☐ N. FIRE OR EXPLOSION

N/A

☐ O. SPILLS/LEAKING CONTAINERS/RUNOFF/STANDING LIQUID

N/A

☐ P. SEWER, STORM DRAIN PROBLEMS

N/A

☐ Q. EROSION PROBLEMS

N/A

☐ R. INADEQUATE SECURITY

N/A

☐ S. INCOMPATIBLE WASTES

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X. WATER AND HYDROLOGICAL DATA (continued)

H. LIST ALL DRINKING WATER WELLS WITHIN A 1/4 MILE RADIUS OF SITE

1. WELL	2. DEPTH (specify unit)	3. LOCATION (proximity to population/ buildings)	4. NON-COMMUNITY (mark 'X')	5. COMMUNITY (mark 'X')
		Unknown		

I. RECEIVING WATER

1. NAME: N/A

☐ 2. SEWERS ☐ 3. STREAMS/RIVERS ☐ 4. LAKES/RESERVOIRS ☐ 5. OTHER (specify):

6. SPECIFY USE AND CLASSIFICATION OF RECEIVING WATERS

XI. SOIL AND VEGITATION DATA

LOCATION OF SITE IS IN:

☐ A. KNOWN FAULT ZONE ☐ B. KARST ZONE ☐ C. 100 YEAR FLOOD PLAIN ☐ D. WETLAND

☐ E. A REGULATED FLOODWAY ☐ F. CRITICAL HABITAT ☒ G. RECHARGE ZONE OR SOLE SOURCE AQUIFER

XII. TYPE OF GEOLOGICAL MATERIAL OBSERVED

Mark 'X' to indicate the type(s) of geological material observed and specify where necessary, the component parts.

'X'	A. OVERBURDEN	'X'	B. BEDROCK (specify below)	'X'	C. OTHER (specify below)
	1. SAND		Unknown		
	2. CLAY				
	3. GRAVEL				

XIII. SOIL PERMEABILITY

☒ A. UNKNOWN ☐ B. VERY HIGH (100,000 to 1000 cm/sec.) ☐ C. HIGH (1000 to 10 cm/sec.)

☐ D. MODERATE (10 to .1 cm/sec.) ☐ E. LOW (.1 to .001 cm/sec.) ☐ F. VERY LOW (.001 to .00001 cm/sec.)

G. RECHARGE AREA

☒ 1. YES ☐ 2. NO 3. COMMENTS:

H. DISCHARGE AREA

☐ 1. YES ☐ 2. NO 3. COMMENTS:

I. SLOPE

1. ESTIMATE % OF SLOPE | 2. SPECIFY DIRECTION OF SLOPE; CONDITION OF SLOPE, ETC.

J. OTHER GEOLOGICAL DATA

HAZARDOUS WASTE SITE INVESTIGATION

Grumman Aerospace Corporation
Bethpage, Long Island, New York

May 30, 1980

Participating Personnel:

Environmental Protection Agency
Billie Jo Johnson, Physical Scientist
Roland B. Hemmett, Chief, Surveillance Section

Grumman Aerospace Corporation
John Ohlmann, Assistant Director Environmental Control, Facilities Engineering Department

Report Prepared By:

Billie Jo Johnson, Physical Scientist
Surveillance Section

Approved for the Director by:

Richard D. Spear, Ph.D.
Chief, Surveillance & Monitoring Branch

Typed by: L. Dennis

BACKGROUND

This site was referred to the Surveillance and Analysis Division by the Hazardous Waste Executive Committee. Information for this report was obtained in an interview with Mr. John Ohlman, Assistant Director, Environmental Control, Facilities Engineering Department of Grumman.

SITE DESCRIPTION

Grumman Aerospace, which is involved in the manufacturing and testing of aircraft, is located in Bethpage, Long Island. To the southwest of the property is a residential area and on the north, it is bordered by light industry. It covers an area of approximately 500 acres, which includes assembly plants, airplane hangers, warehouses and a runway area. Grumman employs 16,000 people; shifts vary depending on the demand for aircraft.

DESCRIPTION OF WASTE

The primary processes employed by Grumman in their operations are metal surface coating of aluminum oxide, chemical milling, paint stripping and a process which uses a penetrant oil to find flaws in the metal used for aircraft parts. Wastes generated from these processes include chromates, sodium hydroxide, nitric acid, methylene chloride and other solvents, phenolics and cooling water. Solvents, oils, surplus paints and resins and other wastes which are not treated by Grumman are stored in drums and removed by vendors for disposal. Cooling water and phenol and chrome waste are treated in an on-site treatment plant. Treatment varies according to type of waste. For example, phenols are oxidized with peroxide; chromates are reduced to a trivalent form and precipitated out with lime. The resultant sludge from this treatment, which has a high metals content, had, until recently, been put into on-site sludge drying beds. Grumman is now dewatering its sludge at the treatment plant with a vacuum filter. The sludge empties directly into a dumpster, and is subsequently hauled away to a secure landfill for disposal. The sludge that remains in the four drying beds will be removed for disposal within the next six months. Grumman plans to leave these drying beds rather than to fill them in, in the event that a malfunction in the new system would require their temporary use.

In cooperation with the New York Department of Environmental Conservation, Grumman performed a series of leachability tests on the sludge drying beds and groundwater to determine if there had been any contamination of groundwater from the sludge. These tests revealed no chrome contamination of groundwater as a result of sludge bed leaching.

On the day of the inspection, the sludge beds contained nearly dry sludges of brown colored ferric hydroxide, and green colored chromium trihydroxide. No odor was detected at the drying beds and there was no apparent spill over onto the surrounding area.

WASTE STORAGE

As mentioned previously, several types of waste are stored in drums on site for short periods of time awaiting ultimate disposal in secure landfills or to be reclaimed. On the day of the inspection, drum storage areas were organized and clean, and there was no indication of leaking or rusting drums. The attached list of wastes and vendors indicates the types of wastes stored by Grumman and the vendor which handled each specific waste for 1979. The PCB waste listed is the result of the drainage of old equipment and disposal of old capacitors. PCB is not used in any process. All chemicals that leave Grumman are listed in a monthly monitoring report which includes the New York State registration number of each trucking firm used. This report is given to the State for their review.

GEOLOGY AND GROUNDWATER

Grumman is situated in a groundwater recharge area, and the treated industrial water and storm runoff from the facility is directed into several recharge basins that are located throughout the property (see attached map). Grumman gets its potable water from fourteen on-site wells. Homes and industry in the surrounding area obtain water from the Bethpage public water supply which has wells approximately 400-600 feet deep.

SAMPLING

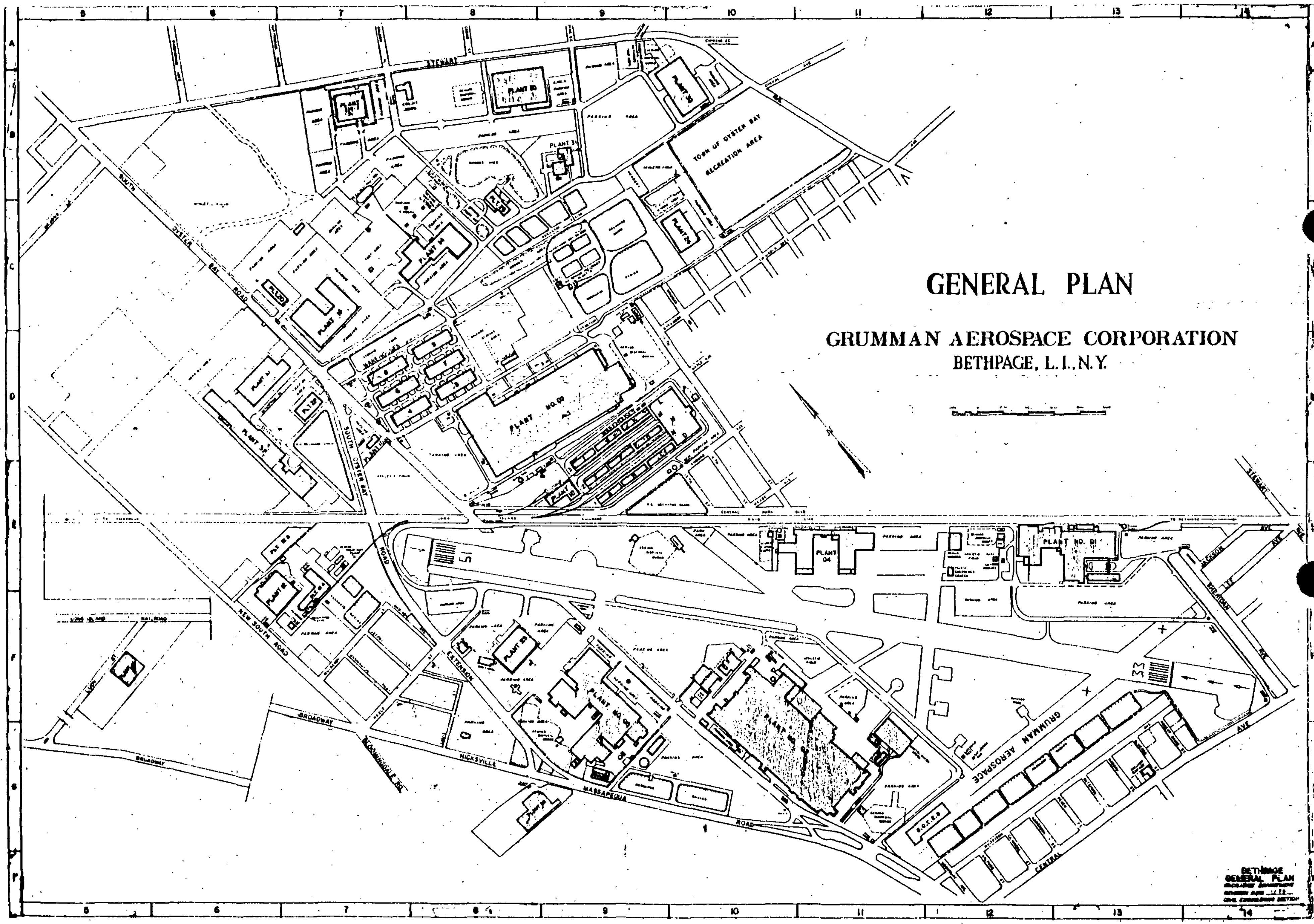
The water used for groundwater recharge, which includes treatment plant effluent and stormwater, is monitored daily for inorganic constituents and twice monthly for organics. The analyses are performed in a State approved quality control lab on the Grumman site, and results are submitted to the New York Department of Environmental Conservation. In addition, the Nassau County Health Department monitors the on-site wells.

STATE AND LOCAL INVOLVEMENT

Grumman has a New York SPDES permit. It fills out a daily report of effluent monitoring data as well as any drum waste disposed of. This report is submitted on a monthly basis to the New York Department of Environmental Conservation. Periodic inspections and monitoring are performed by the Nassau County Health Department.

DISCUSSION

The two main areas of concern with Grumman are its treated effluent, since it is used as groundwater recharge, and the sludge drying beds, which could potentially cause groundwater contamination. Since Grumman no longer uses the sludge drying beds to dispose of waste, and since the company is involved in State approved monitoring programs of both sludge and discharge water, this site is considered a low priority for further EPA involvement at this time.


GENERAL PLAN
GRUMMAN AEROSPACE CORPORATION
BETHPAGE, L.I., N.Y.
TOWN OF OYSTER BAY
RECREATION AREA
PLANT NO. 03
PLANT NO. 01
PLANT 04
PLANT 31
SOUTH OYSTER BAY ROAD
NEW SOUTH ROAD
BROADWAY
HICKSVILLE
MASSAPEQUA
ROAD
EXTENSION
GRUMMAN AEROSPACE
CENTRAL
AVE
STEWART
SHERIDAN
JACKSON
15
33
BETHPAGE
GENERAL PLAN